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O- By Author O- Basic O- Advanced Member Services	Computer Graphics and Applications, 2001. Proceedings. Ninth Pacific Conferen 16-18 Oct. 2001 Page(s): 322 -330
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	[Abstract] [PDF Full-Text (956 KB)] IEEE JNL 3 Efficient design method for multi-pump flat-gain fiber Raman amplifi Perlin, V.E.; Winful, H.G.; Optical Fiber Communication Conference and Exhibit, 2002. OFC 2002, 17-22 2002 Page(s): 57 -59
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4 On trade-off between noise and nonlinearity in WDM systems with distributed Raman amplification



Perlin, V.E.; Winful, H.G.;

Optical Fiber Communication Conference and Exhibit, 2002. OFC 2002, 17-22

2002

Page(s): 178 -180

[Abstract] [PDF Full-Text (352 KB)] IEEE CNF

5 Ultra-broadband Raman amplification with spatially diverse pumps

Perlin, V.E.; Winful, H.G.;

Lasers and Electro-Optics, 2002. CLEO '02. Technical Digest. Summaries of Pap Presented at the , 19-24 May 2002

Page(s): 432 -433 vol.1

[Abstract] [PDF Full-Text (320 KB)] **IEEE CNF**

6 Optimizing the noise performance of broad-band WDM systems with distributed Raman amplification

Perlin, V.E.; Winful, H.G.;

Photonics Technology Letters, IEEE , Volume: 14 Issue: 8 , Aug. 2002

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On distributed Raman amplification for ultrabroad-band long-haul W systems

Perlin, V.E.; Winful, H.G.;

Lightwave Technology, Journal of , Volume: 20 Issue: 3 , March 2002

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Perlin noise pixel shaders

John C. Hart

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August 2001 Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on on Graphics hardware

Full text available: pdf(919.41 KB) Additional Information: full citation, abstract, references, index terms

While working on a method for supporting real-time procedural solid texturing, we developed a general purpose multipass pixel shader to generate the Perlin noise function. We implemented this algorithm on SGI workstations using accelerated OpenGL PixelMap and PixelTransfer operations, achieving a rate of 2.5 Hz for a 256x256 image. We also implemented the noise algorithm on the NVidia GeForce2 using register combiners. Our register combiner implementation required 375 passes, but ran at 1.3 H ...

Keywords: Perlin noise function, hardware shading, pixel shaders, register combiners

² Algorithms for solid noise synthesis

J. P. Lewis

July 1989 ACM SIGGRAPH Computer Graphics, Proceedings of the 16th annual conference on Computer graphics and interactive techniques, Volume 23 Issue 3

Full text available: pdf(4.69 MB) Additional Information: full citation, references, citings, index terms

3 Procedural texture mapping on FPGAs

Andy G. Ye, David M. Lewis

February 1999 Proceedings of the 1999 ACM/SIGDA seventh international symposium on Field programmable gate arrays

Full text available: pdf(1.05 MB)

Additional Information: full citation, references, index terms

4 Improving noise

Ken Perlin

July 2002 ACM Transactions on Graphics (TOG), Proceedings of the 29th annual conference on Computer graphics and interactive techniques, Volume 21 Issue 3

Full text available: pdf(394.25 KB) Additional Information: full citation, abstract, references, index terms



Two deficiencies in the original Noise algorithm are corrected: second order interpolation discontinuity and unoptimal gradient computation. With these defects corrected, Noise both looks better and runs faster. The latter change also makes it easier to define a uniform mathematical reference standard.

Keywords: procedural texture

⁵ The synthesis and rendering of eroded fractal terrains F. K. Musgrave, C. E. Kolb, R. S. Mace



Full text available: pdf(5.83 MB) Additional Information: full citation, references, citings, index terms

6 Real-time bump map synthesis

Jan Kautz, Wolfgang Heidrich, Hans-Peter Seidel

August 2001 Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on on **Graphics hardware**

Full text available: pdf(764.07 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present a method that automatically synthesizes bump maps at arbitrary levels of detail in real-time. The only input data we require is a normal density function; the bump map is generated according to that function. It is also used to shade the generated bump map.

The technique allows to infinitely zoom into the surface, because more (consistent) detail can be created on the fly. The shading of such a surface is consistent when displayed at different distances to the ...

7 Spot noise texture synthesis for data visualization

Jarke J. van Wijk

July 1991 ACM SIGGRAPH Computer Graphics, Proceedings of the 18th annual conference on Computer graphics and interactive techniques, Volume 25 Issue 4

Full text available: pdf(8.67 MB)

Additional Information: full citation, references, citings, index terms

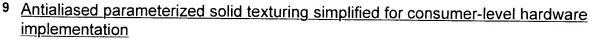
Keywords: flow visualization, fractals, particle systems, scientific visualization, texture synthesis

Sampling procedural shaders using affine arithmetic Wolfgang Heidrich, Philipp Slusallek, Hans-Peter Seidel July 1998 ACM Transactions on Graphics (TOG), Volume 17 Issue 3

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(590.82 KB) terms

Procedural shaders have become popular tools for describing surface reflectance functions and other material properties. In comparison to fixed resolution textures, they have the advantage of being resolution-independent and storage-efficient. While procedural shaders provide an interface for evaluating the shader at a single point, it is not easily possible to obtain an average value of the shader together with accurate error bounds over a finite area. Yet the ability to compute ...

Keywords: affine arithmetic



John C. Hart, Nate Carr, Masaki Kameya, Stephen A. Tibbitts, Terrance J. Coleman July 1999 Proceedings of the 1999 Eurographics/SIGGRAPH workshop on Graphics hardware

Full text available: pdf(1.86 MB)

Additional Information: full citation, references, citings, index terms

Keywords: antialiasing, hardware, procedural texturing, solid texturing

10 A cellular texture basis function

Steven Worley

August 1996 Proceedings of the 23rd annual conference on Computer graphics and interactive techniques

Full text available: pdf(66.92 KB) Additional Information: full citation, references, citings, index terms

11 Shading and shaders: Shader metaprogramming

Michael D. McCool, Zheng Qin, Tiberiu S. Popa

September 2002 Proceedings of the conference on Graphics hardware 2002

Full text available: pdf(630.20 KB) Additional Information: full citation, abstract, references, index terms

Modern graphics accelerators have embedded programmable components in the form of vertex and fragment shading units. Current APIs permit specification of the programs for these components using an assembly-language level interface. Compilers for high-level shading languages are available but these read in an external string specification, which can be inconvenient. It is possible, using standard C++, to define a high-level shading language directly in the API. Such a language can be nearly indist ...

12 Motion texture: a two-level statistical model for character motion synthesis Yan Li, Tianshu Wang, Heung-Yeung Shum

July 2002 ACM Transactions on Graphics (TOG), Proceedings of the 29th annual conference on Computer graphics and interactive techniques, Volume 21 Issue 3

Full text available: pdf(5.06 MB)

Additional Information: full citation, abstract, references, citings, index

In this paper, we describe a novel technique, called motion texture, for synthesizing complex human-figure motion (e.g., dancing) that is statistically similar to the original motion captured data. We define motion texture as a set of motion textons and their distribution, which characterize the stochastic and dynamic nature of the captured motion. Specifically, a motion texton is modeled by a linear dynamic system (LDS) while the texton distribution is represented by a transition matrix indicat ...

Keywords: linear dynamic systems, motion editing, motion synthesis, motion texture, texture synthesis

13 Comparing LIC and spot noise

Wim de Leeuw, Robert van Liere

October 1998 Proceedings of the conference on Visualization '98

Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms



Keywords: flow visualization, texture synthesis

14	Structural modeling of flames for a production environment Arnauld Lamorlette, Nick Foster	
	July 2002 ACM Transactions on Graphics (TOG), Proceedings of the 29th annual conference on Computer graphics and interactive techniques, Volume 21 Issue 3 Full text available: Dodf(812.38 KB) Additional Information: full citation, abstract, references, index terms	
	In this paper we describe a system for animating flames. Stochastic models of flickering and buoyant diffusion provide realistic local appearance while physics-based wind fields and Kolmogorov noise add controllable motion and scale. Procedural mechanisms are developed for animating all aspects of flame behavior including moving sources, combustion spread, flickering, separation and merging, and interaction with stationary objects. At all stages in the process the emphasis is on total artistic a	
	Keywords : animation systems, convection, fire, flames, kolmogorov spectrum, physically-based modeling, wind fields	
15	Global illumination using local linear density estimation Bruce Walter, Philip M. Hubbard, Peter Shirley, Donald P. Greenberg July 1997 ACM Transactions on Graphics (TOG), Volume 16 Issue 3	
	Full text available: pdf(22.31 MB) Additional Information: full citation, abstract, references, citings, index terms	
	This article presents the density estimation framework for generating view-independent global illumination solutions. It works by probabilistically simulating the light flow in an environment with light particles that trace random walks origination at luminaires and then using statistical density estimation techniques to reconstruct the lighting on each surface. By splitting the computation into separate transport and reconstruction stages, we gain many advantages including reduced memory u	
	Keywords : decimation, density estimation, particle tracing, realistic image synthesis, regression	
16	Real-time procedural textures John Rhoades, Greg Turk, Andrew Bell, Andrei State, Ulrich Neumann, Amitabh Varshney June 1992 Proceedings of the 1992 symposium on Interactive 3D graphics	
	Full text available: pdf(822.02 KB) Additional Information: full citation, references, citings, index terms	
17	Generating textures on arbitrary surfaces using reaction-diffusion Greg Turk	7
	July 1991 ACM SIGGRAPH Computer Graphics, Proceedings of the 18th annual conference on Computer graphics and interactive techniques, Volume 25 Issue 4 Full text available: pdf(6.01 MB) Additional Information: full citation, references, citings, index terms	
	Keywords: biological models, reaction-diffusion, texture mapping	



18 Motion capture assisted animation: texturing and synthesis

Katherine Pullen, Christoph Bregler

July 2002 ACM Transactions on Graphics (TOG), Proceedings of the 29th annual conference on Computer graphics and interactive techniques, Volume 21 Issue 3

Full text available: pdf(274.39 KB)

Additional Information: full citation, abstract, references, citings, index terms

We discuss a method for creating animations that allows the animator to sketch an animation by setting a small number of keyframes on a fraction of the possible degrees of freedom. Motion capture data is then used to enhance the animation. Detail is added to degrees of freedom that were keyframed, a process we call texturing. Degrees of freedom that were not keyframed are synthesized. The method takes advantage of the fact that joint motions of an articulated figure are often correlated, so that ...

Keywords: animation, motion capture, motion synthesis, motion texture

19 A shading language on graphics hardware: the pixelflow shading system Marc Olano, Anselmo Lastra

July 1998 Proceedings of the 25th annual conference on Computer graphics and interactive techniques

Full text available: pdf(238.26 KB) Additional Information: full citation, references, citings, index terms

Keywords: procedural shading, real-time image generation, shading language

²⁰ Multi-frequency noise for LIC

Ming-Hoe Kiu, David C. Banks

October 1996 Proceedings of the conference on Visualization '96

Full text available: pdf(8.50 MB)

Additional Information: full citation, references, citings, index terms

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